

Figure 1

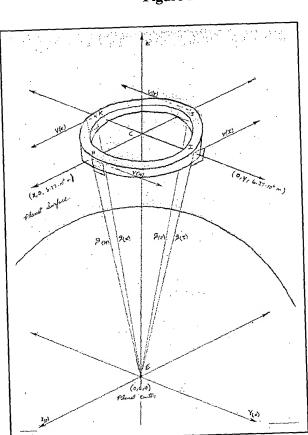
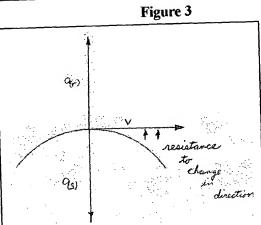


Figure 2



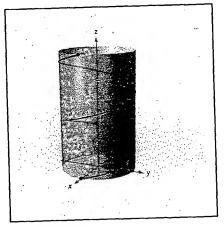


Figure 4

INVENTOR Lohn P Foster

Particle Accelerator Space Engine

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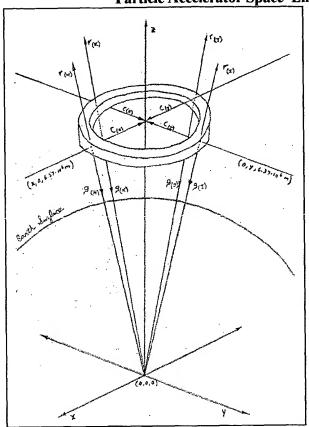


Figure 5

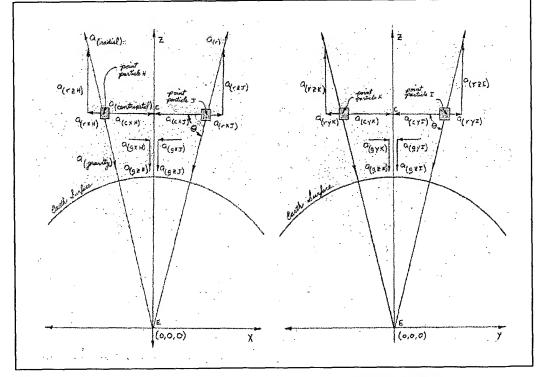


Figure 6

INVENTOR

Lohn P Foster

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F_{(C)} = F_{(H)} + F_{(I)} + F_{(I)} + F_{(K)}
On the x,z plane
F_{(H)} = \frac{1}{4}m \times a_{(H)} = \frac{1}{4}m \times [a_{(rxH)}i + a_{(rzH)}k + a_{(cxH)}i + a_{(czH)}k + a_{(gzH)}i + a_{(gzH)}k]
F_{(J)} = \frac{1}{4}m \times a_{(J)} = \frac{1}{4}m \times [a_{(rxJ)} i + a_{(rxJ)} k + a_{(cxJ)} i + a_{(cxJ)} k + a_{(gxJ)} i + a_{(gxJ)} k]
On the y,z plane
F_{(1)} = \frac{1}{4} \text{m x } a_{(1)} = \frac{1}{4} \text{m x } [a_{(ryl)}] + a_{(rzl)}k + a_{(cyl)}] + a_{(czl)}k + a_{(gyl)}] + a_{(gzl)}k
F_{(K)} = \frac{1}{m} \times a_{(K)} = \frac{1}{m} \times [a_{(rvK)}j + a_{(rzK)}k + a_{(cvK)}j + a_{(czK)}k + a_{(gvK)}j + a_{(gzK)}k]
Expand the equations and sum, such that component parts equal
                                                                                         = v^2/r_{earth+alt} x (ratio of sides)
          radial acceleration
          Centripetal acceleration = v^2/r_{ring} x (ratio of sides)
          Gravity acceleration = (a_g)
                                                                                                                                    x (ratio of sides)
F_{HH} = \frac{1}{4} m \left[ \frac{v^2}{EH} (CH/EH) i + \frac{v^2}{EH} (EC/EH) k + \frac{v^2}{CH} (HC/HC) i + 0 k + (a_e)_{HE} (HC/HE) i + (a_e)_{HE} (CE/HE) k \right]
F_{(J)} = \frac{1}{4} \text{m} \left[ v^2 \right]_{EJ} (CJ/EJ) i + v^2 \right]_{EJ} (EC/EJ) k + v^2 \Big|_{CJ} (JC/CJ) i + 0 k + (a_e)_{E} (JC/JE) i + (a_e)_{E} (CE/JE) k \Big|_{EJ} 
F_{(1)} = \frac{1}{4m} \left[ v^2 \right]_{EI} (CI/EI) j + v^2 \Big|_{EI} (EC/EI) k + v^2 \Big|_{CI} (IC/CI) j + 0 k + (a_e)_{IE} (IC/IE) j + (a_e)_{IE} (CE/IE) k \Big|_{EI}
F_{(K)} = \frac{1}{m} \left[ v^2 / EK (CK/EK) j + v^2 / EK (EC/EK) k + v^2 / EK (KC/KC) j + 0 k + (a_2) / EE (KC/KE) j + (a_2) / EE (KC/KE) k \right]
F_{(C)} = \frac{1}{m} \{ [0i+0j] + 4[v^2/(r_{planet} + alt)(EC/(r_{planet} + alt)k] + [0i+0j] + 0 k + [0i+0j] + [4 (a_g)CE/(r_{planet} + alt)k] \}
F_{(C)} = m \left[ v^2 / (r_{planet} + alt) + a_g \right] \left( EC / (r_{planet} + alt) \right) = m_{particle stream} a_{(2)} = VERTICAL THRUST
a_{(z)} = \left[ v^2 / (r_{planet} + alt) + a_g \right] k \times \sin(\theta)
                                                                                   where \sin(\theta) = \frac{(r_{\text{doughmut center}})}{(r_{\text{point particle}})} \approx \sin(90^{\circ}) \approx 1
                                                      a_{(z)} \approx v^2/r + a_{\sigma}
Therefore:
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Figure 7

Theoretic example, Thrust by Gyroscopic Lift with a Particle Accelerator:

50 milligrams of ionized particles, continuously traveling along a circular path at 60% velocity of light should provide 2.54. x 10⁵ Newtons of upward thrust.

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\begin{split} F_{particles} &= m_{particles} \, x \, \, a_z \; , & m \; measured \; in \; Kg \\ F &= m \, x \, \big[ v^2 / (r_{planet} + alt) \; + g \big] \\ F &= 50 \, x 10^{-6} \, x \, \big[ (2.998 \, x \; 10^8 \, x \; .60)^2 / \, (6.371 \, x \; 10^6) \; \text{-}9.821 \big] = 253,938 \; N \end{split}
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Figure 8

Theoretic example, Vertical Acceleration of Ship with Particle Accelerators

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\begin{split} F_{\text{particles}} + F_{\text{gravity}} &= F_{\text{ship}} \,, \\ F_{\text{particles}} + F_{\text{gravity}} &= m_{\text{ship}} \, x \, a_{\text{ship}} \\ F_{\text{particles}} + (m_{\text{ship}} \, x \, g) &= m_{\text{ship}} \, x \, a_{\text{ship}} \\ [F_{\text{particles}} + (m_{\text{ship}} \, x \, g)] \, / \, m_{\text{ship}} &= a_{\text{ship}} \\ [(2 \, x \, 2.54 \, x \, 10^5) + (40 \, x \, 10^3 \, x^{-9}.821)] / \, (40 \, x \, 10^3) &= 2.879 \, \text{m/s}^2 \end{split}
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 $2.879 \text{ m/s}^2 / 9.821 \text{ m/s}^2 = .2931 \text{ g/s}$

Figure 9

INVENTOR Lohn P Lister

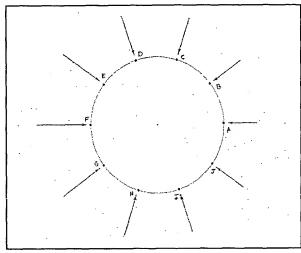


Figure 10

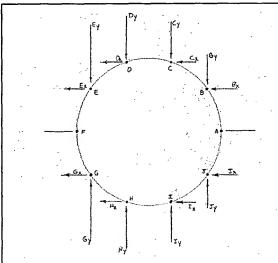
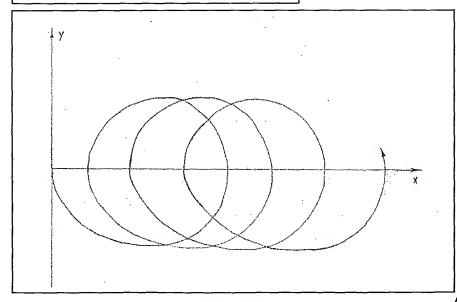


Figure 11



INVENTOR

Figure 12